

Claims

1. A device for holding a plurality of associated control lines in a defined orientation relative to each other, said device comprising:

    a control line support structure that defines a plurality of control line receiving and retaining locations each adapted to receive and releasably retain an associated cable or other control line;

    a flexible retainer projecting outwardly from said support structure and adapted for movably securing said support structure to an associated mounting location.

2. The device as set forth in claim 1, wherein said support structure and said flexible retainer are defined as a one-piece construction.

3. The device as set forth in claim 1, wherein said support structure comprises a polymeric member.

4. The device as set forth in claim 3, wherein said polymeric member is transparent.

5. The device as set forth in claim 4, wherein said transparent polymeric member is flexible.

6. The device as set forth in claim 1, wherein said support structure comprises a flexible polymeric member and wherein said control line receiving locations are defined by a plurality of flexible flaps arranged adjacent each other and selectively resiliently deflectable outwardly from said flexible polymeric member to define an opening.

7. The device as set forth in claim 6, wherein said flexible flaps are arranged in a pie-shaped conformation, with each flexible flaps comprising converging lateral sides that meet adjacent a central region of said control line receiving location.

8. The device as set forth in claim 1, wherein said control line support structure comprises a peripheral edge, and wherein each of said control line receiving locations opens in said peripheral edge to allow for mid-span insertion of a cable or other control line.

9. The device as set forth in claim 6, wherein said control line support structure comprises a peripheral edge, and wherein each of said control line receiving locations opens in said peripheral edge to allow for mid-span insertion of a cable or other control line.

10. The device as set forth in claim 1, further comprising indicia located on said control line support structure, said indicia uniquely identifying each cable-receiving location.

11. The device as set forth in claim 1, wherein control line receiving locations of said support structure are arranged in a select pattern relative to each other, wherein said select pattern matches a connector pattern of an associated interface module.

12. The device as set forth in claim 4, wherein said control line receiving locations are arranged in multiple rows and columns.

13. The device as set forth in claim 1, wherein said support structure comprises a one-piece molded plastic open skeletal framework.

14. The device as set forth in claim 1, further comprising a support bracket, wherein said flexible retainer is connected to said bracket.

15. The device as set forth in claim 14, wherein said bracket is C-shaped and defines an open recess and further comprises a plurality of control line receiving locations formed as a part of a sidewall thereof.

16. A device for holding a plurality of associated control lines in a defined orientation relative to each other, said device comprising:

a control line support structure that defines a plurality of control line receiving and retaining locations each adapted to receive and releasably retain an associated cable or other control line, said support structure comprising a transparent polymeric sheet member.

17. The device according to claim 16, wherein said control line support structure is movably connected to a mounting structure.

18. The device according to claim 16, wherein an industrial automation input/output module is connected to said mounting structure and comprises a plurality of connectors arranged in a select pattern, and wherein said control line receiving locations of said support structure are arranged and spaced relative to each other to correspond with said select pattern.

19. A device for holding a plurality of associated cables in a defined orientation relative to each other, said device comprising:

a support structure that defines a plurality of cable retaining locations each adapted to receive and releasably retain an associated cable, wherein said cable retaining locations are arranged in a pattern that corresponds to a pattern of connectors of an associated input/output interface device to which said cables are adapted to be connected so as to provide a one-to-one correspondence

between each cable retaining location and each connector of the associated input/output device.

20. The device as set forth in claim 19, wherein said cable retaining locations of said support structure are adapted for alignment with connection axes of connectors of the associated input/output interface device.